

## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits  | Search Query    | DBs   | Default Operator | Plurals | Time Stamp          |
|-------|-------|-----------------|---|------------------|---------|---------------------|
| S1    | 2     | "20070149684"   | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/12/24<br>12:56 |
| S2    | 1     | "KR 2002051203" | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/12/24<br>13:04 |
| S3    | 2132  | 524/ 445.ccls.  | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/12/24<br>13:07 |
| S4    | 2     | "5883173".pn.   | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/12/24<br>13:07 |
| S5    | 2     | "6057396".pn.   | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/12/30<br>16:53 |
| S6    | 2     | "6271297".pn.   | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/12/30<br>16:53 |
| S7    | 41107 | atomization     | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/01/05<br>11:57 |
| S8    | 2142  | 524/ 445.ccls.  | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/01/05<br>11:58 |
| S9    | 9     | S7 and S8       | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/01/05<br>11:58 |

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| S10 | 2638337 | polymer                           | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/05<br>16:26 |
| S11 | 618     | (lamellar or nano) adj<br>clay    | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/05<br>16:27 |
| S12 | 4317502 | water                             | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/05<br>16:27 |
| S13 | 41107   | atomization                       | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/05<br>16:27 |
| S14 | 0       | S10 same S11 same<br>S12 same S13 | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/05<br>16:27 |
| S15 | 28      | S10 same S11 same<br>S12          | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/05<br>16:28 |
| S16 | 0       | S15 and S13                       | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/05<br>16:28 |
| S17 | 2638754 | polymer                           | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/06<br>07:50 |
| S18 | 619     | (lamellar or nano) adj<br>clay    | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/06<br>07:50 |
| S19 | 4318194 | water                             | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/06<br>07:50 |

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| S20 | 28      | S17 same S18 same S19   | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/06<br>07:50 |
| S21 | 9669    | (peptizing adj agent) or<br>(alkali adj metal adj<br>(phosphate or<br>polyphosphate)) | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/06<br>08:02 |
| S22 | 0       | S20 and S21   | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/06<br>08:03 |
| S23 | 262     | S17 same S18  | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/06<br>08:03 |
| S24 | 1       | S23 and S19 and S21   | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/06<br>08:04 |
| S25 | 1       | S23 and S21   | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/06<br>08:04 |
| S26 | 7252    | nanocomposite   | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/13<br>15:30 |
| S27 | 72597   | sodium adj phosphate  | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/13<br>15:31 |
| S28 | 26557   | (sodium adj phosphate)<br>and emulsion  | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/13<br>15:31 |
| S29 | 1850760 | particle or micrometer  | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/13<br>15:32 |

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| S30 | 30    | S26 and S28 and S29   | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/13<br>15:33 |
| S31 | 17302 | particles same (aspect<br>adj ratio)  | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/13<br>15:35 |
| S32 | 190   | S26 same S31  | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/13<br>15:35 |
| S33 | 0     | S32 and S27   | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/13<br>15:36 |
| S34 | 0     | S32 and S28   | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/13<br>15:36 |
| S35 | 27054 | ((sodium or Na) adj<br>phosphate) and<br>emulsion                                     | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/13<br>15:36 |
| S36 | 30    | S26 and S35   | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/13<br>15:37 |
| S37 | 190   | S32 and S29   | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/13<br>16:01 |
| S38 | 2     | "6855754".pn.   | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/13<br>16:02 |
| S39 | 9681  | (peptizing adj agent) or<br>(alkali adj metal adj<br>(phosphate or<br>polyphosphate)) | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/13<br>16:06 |

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| S40 | 44    | S26 and S39                                | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/01/13<br>16:06 |
| S41 | 11    | weight adj average adj<br>diameter adj D50 | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/01/14<br>07:22 |
| S42 | 1475  | weight adj average adj<br>diameter         | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/01/14<br>07:24 |
| S43 | 7252  | nanocomposite                              | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/01/14<br>07:28 |
| S44 | 6     | S42 and S43                                | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/01/14<br>07:28 |
| S45 | 41584 | atomization                                | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT      | OR | OFF | 2009/07/03<br>16:14 |
| S46 | 22130 | incoming adj air                           | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT      | OR | OFF | 2009/07/03<br>16:14 |
| S47 | 11    | turbine adj atomization                    | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT      | OR | OFF | 2009/07/03<br>16:14 |
| S48 | 488   | two adj fluid adj nozzles                  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT      | OR | OFF | 2009/07/03<br>16:15 |
| S49 | 6     | S45 and S46 and S48                        | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT      | OR | OFF | 2009/07/03<br>16:15 |
| S50 | 1     | S49 and turbine                            | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT      | OR | OFF | 2009/07/03<br>16:15 |

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| S51 | 0     | compression adj<br>pressure adj reduction<br>near nozzle near fluid | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | OFF | 2009/07/03<br>16:47 |
| S52 | 84    | compression adj<br>pressure adj reduction                           | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | OFF | 2009/07/03<br>16:48 |
| S53 | 4     | S52 and nozzle and fluid  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | OFF | 2009/07/03<br>16:48 |
| S54 | 1     | S45 same S52  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | OFF | 2009/07/03<br>16:54 |
| S55 | 2     | S45 and S52   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | OFF | 2009/07/03<br>16:54 |
| S56 | 356   | compression near3<br>pressure near2<br>reduction                    | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | OFF | 2009/07/03<br>16:55 |
| S57 | 1     | S45 same S56  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | OFF | 2009/07/03<br>16:55 |
| S58 | 4     | S45 and S56   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | OFF | 2009/07/03<br>16:55 |
| S59 | 2     | "5367049".pn.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | OFF | 2009/07/03<br>17:34 |
| S60 | 2     | "6825244".pn.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | OFF | 2009/07/03<br>17:37 |
| S61 | 25676 | fluoropolymer   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | OFF | 2009/07/03<br>17:40 |
| S62 | 113   | chloropolymer   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | OFF | 2009/07/03<br>17:40 |
| S63 | 1081  | vinylidene adj fluoride<br>adj polymer                              | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | OFF | 2009/07/03<br>17:41 |

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| S64 | 25876 | S61 saem S62 same S63  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | OFF | 2009/07/03<br>17:41 |
| S65 | 0     | S61 same S62 same S63  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | OFF | 2009/07/03<br>17:41 |
| S66 | 2153  | halogenated adj polymer  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | OFF | 2009/07/03<br>17:42 |
| S67 | 3     | S66 same S63   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | OFF | 2009/07/03<br>17:42 |
| S68 | 25770 | fluoropolymer  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | OFF | 2009/07/17<br>08:15 |
| S69 | 1083  | vinylidene adj fluoride adj polymer  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | OFF | 2009/07/17<br>08:15 |
| S70 | 67    | S68 same S69   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | OFF | 2009/07/17<br>08:15 |
| S71 | 29    | S70 and dispersion   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | OFF | 2009/07/17<br>08:16 |
| S72 | 0     | S71 and atomization  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | OFF | 2009/07/17<br>08:16 |
| S73 | 0     | S71 and lamellar   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | OFF | 2009/07/17<br>08:16 |
| S74 | 6     | S71 and clay   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | OFF | 2009/07/17<br>08:16 |
| S75 | 0     | dispersion near2 compress near2 pump near2 pressure near3 nozzle near3 fluid | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | OFF | 2009/07/17<br>09:55 |
| S76 | 18696 | compression same pressure same reduction                                     | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | OFF | 2009/07/17<br>09:56 |

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| S77 | 411 | S76 same nozzle same fluid | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | OFF | 2009/07/17<br>09:57 |
| S78 | 26  | S77 and atomization        | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | OFF | 2009/07/17<br>09:57 |

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